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**TEST INFORMATION GUIDE**

This test information guide provides a summary of concepts that are tested on the multiple-choice examination for the **Automotive Mechanic: Option 1 - General** job. This information can be reviewed in combination with the class specification and examination announcement to assist you in preparing for the examination.

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**I. EMISSIONS****(14 Questions)**

Employees in this job are responsible for diagnosing mechanical problems affecting a vehicle's emission system as well as making necessary repairs or adjustments to the emissions system and its secondary components. Test questions topics include:

- Air injection system components and function;
- Fuel system components and function;
- Emission control system components and function;
- Function of computer command control system (CCCS);
- Fuel, fuel mixes and emission components;
- Emission system mechanical problems and resolutions.

**II. SUSPENSION AND STEERING****(10 Questions)**

Employees in this job are responsible for diagnosing mechanical problems affecting a vehicle's suspension and steering components as well as making necessary repairs or adjustments to the suspension and steering components and its secondary components. Test question topics include:

- Suspension and steering system components and function;
- Causes of excessive tire wear on inside edge, outside edge, and cupping;
- Camber adjustments;
- Front end alignments;
- Suspension and steering system mechanical problems and resolutions.

**III. DIFFERENTIAL****(10 Questions)**

Employees in this job are responsible for diagnosing mechanical problems affecting the differential or rear axle of a vehicle as well as making necessary repairs or adjustments to the differential and its secondary components. Test question topics include:

- Components and function of the differential or rear axle of a vehicle;
- Differential mechanical problems and resolutions;
- Effects of improper differential adjustments;
- Tools and methods used for measuring differential components;
- Transaxles and conventional axles.

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#### **IV. BRAKES**

**(10 Questions)**

Employees in this job are responsible for diagnosing mechanical problems affecting the brake system of a vehicle as well as making necessary repairs or adjustments to the brake system and its secondary components. Test question topics include:

- Different brake systems components and function;
- Ratio of braking action;
- Safety practices and procedures.

#### **V. ENGINE DESIGN**

**(14 Questions)**

Employees in this job perform various tasks which require the knowledge of the different components of gasoline engines. Test question topics include:

- Engine component location and function;
- Interrelation between the various engine components;
- Component measurement and testing.

#### **VI. IGNITION**

**(10 Questions)**

Employees in this job are responsible for diagnosing mechanical problems affecting the ignition system of a vehicle as well as making necessary repairs or adjustments to various components of the ignition system. Test question topics include:

- Primary and secondary ignition systems components and function;
- Signs and signals of mechanical problems associated with the ignition systems;
- Current, voltage, voltage measurement, spark test, and coil reserve.

#### **VII. SYSTEM**

**FUEL  
(14 Questions)**

Employees in this job are responsible for diagnosing mechanical problems affecting the various components which comprise the fuel system of a vehicle as well as making necessary repairs and adjustments to the components of the fuel system. Test question topics include:

- Fuel system components and function;
- Fuel injection, cruise operation, carbureted systems, and diesel engines;
- Fuel system mechanical problems and resolutions.

**VIII. ELECTRICAL SYSTEM****(14 Questions)**

Employees in this job are responsible for diagnosing mechanical problems affecting the various components which comprise the electrical system of a vehicle as well as making necessary repairs and adjustments to the components of the electrical system. Test question topics include:

- Electrical system components and function;
- Electrical system neck problems and resolutions;
- Voltage, current, amperes, and charging rates.

**IX. HEATING AND AIR CONDITIONING SYSTEMS****(10 Questions)**

Employees in this job are responsible for diagnosing mechanical problems affecting the various components which comprise the heating and air conditioning systems of a vehicle as well as making necessary repairs and adjustments to the components of these systems. Test question topics include:

- Heating and air conditioning systems component location and functions;
- Heating/air conditioning system mechanical problems and resolutions;
- Refrigerant, and the methods and procedures for charging an A/C system.